

CLIPPEDIMAGE= JP407226643A

PAT-NO: JP407226643A

DOCUMENT-IDENTIFIER: JP 07226643 A

TITLE: ELASTIC WAVE ELEMENT

PUBN-DATE: August 22, 1995

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APPL-NO: JP06016827

APPL-DATE: February 10, 1994

INT-CL (IPC): H03H009/145;H03H009/44

ABSTRACT:

PURPOSE: To prevent the crossing part of the same center frequency from continuing to provide required characteristics by providing an area where the ratio of an electrode finger width and the gap length of adjacent electrode fingers is changed in a part where the electrode fingers with different potentials of an interdigital electrode cross.

CONSTITUTION: The electrode finger arraying gap of an input side interdigital electrode 1a is gradually made small towards an output side electrode 1b and the electrode 1b is turned to be in a shape symmetrical to the 1a as well. In

the area 11 where the gap is small, the ratio of the width and the gap of the respective electrode fingers 2 is changed, the crossing part provided with the same constitution is eliminated in the entire crossing parts and the center frequencies of the respective crossing parts constituted of the adjacent electrode fingers 2 are made different. Since the propagation speeds of elastic waves in the electrode finger 2 and a gap part are different, by changing the ratio of the electrode finger width and the gap length, delay time between the electrode fingers 2 is changed and the center frequency is changed. Thus, by attaining such constitution, the delay time in respective crossing points is effectively made small and the degradation of the characteristics due to continuance in the crossing parts of the same delay time is prevented.

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